MITSUBISHI ELECTRIC

DIGITAL RECORDER

HOW TO USE GUIDE

MITSUBISHI DIGITAL RECORDER DX-TL2500
SPLIT/ SEQUENCE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
ZOOM
SPOT TIMER PRE ALARM M-DET EMERGENCY ACCESS COM LOCK
CLEAR/ REW
ENTER/ FF
REC/STOP
ARCHIVE
Digital Multiplex & Record

MODELS

DX-TL2500E
DX-TL950E250
DX-TL800E120

CE

THIS HOW TO GUIDE IS IMPORTANT TO YOU. PLEASE READ IT BEFORE USING YOUR DIGITAL RECORDER.

Note that this guide is based on the DX-TL2500E Digital Recorder.

PLAYBACK

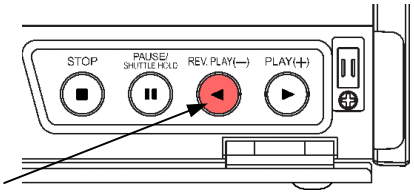
Basic Playback

Note: While you are in the **PLAYBACK** mode the DVR will continue to record.

Step 1. To enter the **PLAYBACK** mode.

Open the front panel, and on the far right you will see four buttons: *STOP, PAUSE, REV.PLAY(-) and PLAY*.

To playback a recorded time period - press the [***REV. PLAY(-)***] button.

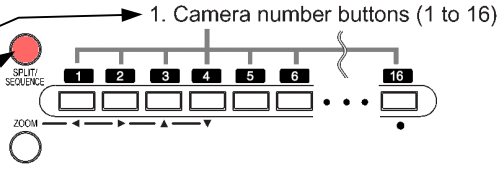


Playback will begin from the earliest recorded memory, and will appear in reverse mode. Depending on how the recorder is set up, some camera images may not appear at first.

Step 2. You will now need to select the desired **LAYOUT VIEW**.

For a **SINGLE CAMERA** press an individual camera button (1.)

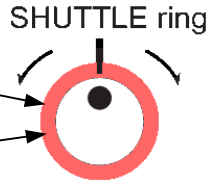
For **MULTIPLE CAMERAS** press the [***SPLIT/SEQUENCE***] button until the desired camera view combination appears.



Step 3. Once you have selected your desired layout view, you can now **REWIND or FFWD from** the recorded time shown.

To rewind - turn the [***SHUTTLE RING***] anticlockwise (to the left) and hold.
Note the further the dial is turned, the faster the rewind speed.
An increase in speed is acknowledged by a short beep.

To **FAST-FORWARD** - turn the [***SHUTTLE RING***] clockwise (to the right) and hold.
Note the further the dial is turned, the faster the forward speed. An increase in speed is acknowledged by a short beep.



Depending on the way the recorder is set up, some images will appear on playback, but will not appear when searching in FFWD or REW mode. To find a specific time and date, refer to the Advanced Search instructions.

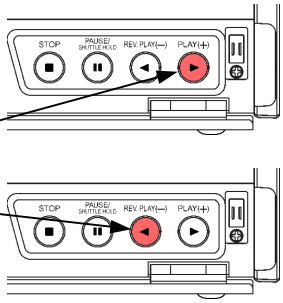
Step 4. Once the [***SHUTTLE RING***] is released - the recorder will go into **PAUSE** mode.

Step 5. Now that you have found the period of recorded time that you wish to view, you can either **PLAY *Forward*** or ***Backwards*** from that point in time.

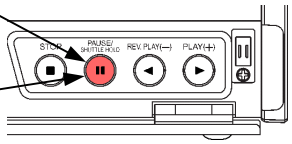
Note: You must be in the **PAUSE** mode first before either of the following.

To **PLAY FORWARD** - press the [***PLAY(+)***] button.

To **PLAY BACKWARDS** - press the [***PAUSE***] then the [***REV. PLAY(-)***] button.



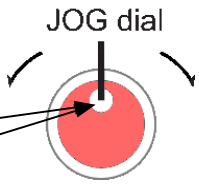
Step 6. To **PAUSE your viewing** - press the [***PAUSE***] button.



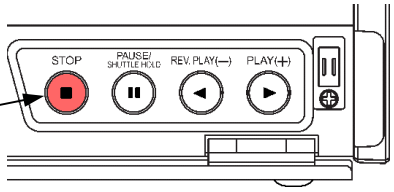
Step 7. If you need to **MOVE FRAME BY FRAME** - press the [***PAUSE***] button, then

To **FRAME ADVANCE** - turn the [***JOG DIAL***] clockwise (to the right).

To **FRAME REWIND** - turn the [***JOG DIAL***] anticlockwise (to the left).



Step 8. Once you have finished playback you can return to the **LIVE RECORDING SCREEN** by pressing the [***STOP***] button.



Step 9. To **RESUME PLAYBACK** after the [***STOP***] button has been pressed - press the [***REV. PLAY(-)***] button as per (Step 1.).

Note: Playback will resume from the last playback time period. If you need to Fast-forward or Rewind to a new time then follow (Step 3.). To go to the start or end of any recorded time you will need to use the SEARCH function, please refer to the "**Searching**" Guide.

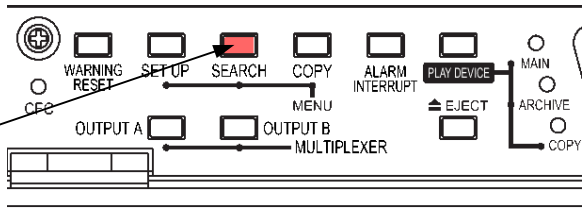
Advanced Searching

Note: While you are in the **SEARCH** mode the DVR will continue to record.
The recorder will beep to let you know you've completed each task successfully.

Step 1. To enter the **SEARCH** mode.

Open the front panel, and to the right of the middle you will see a group of 9 buttons.

To search for a recorded time period – press the [***SEARCH***] button.



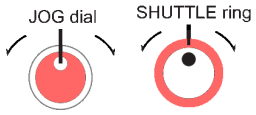
If **TIME DATE SEARCH** appears on screen, move to **Step 2.**

Else depending on the last type of search method used, various search menus may appear.

Press [***SEARCH***] a second time to enter the **SEARCH SELECTION** menu.

Using the [***JOG DIAL***], select **SEARCH TYPE**, and then turn the [***SHUTTLE RING***] clockwise. The **SEARCH TYPE** will flash.

Using the [***JOG DIAL***], select TIME DATE, and then turn the [***SHUTTLE RING***] clockwise. Now turn the [***SHUTTLE RING***] anticlockwise, to go back to the **TIME DATE SEARCH** menu. Now move to **Step 2.**



Step 2. The **TIME DATE SEARCH** menu will now appear on your display monitor.

You will notice [**>>**] next to the start of the **Date and Time**.

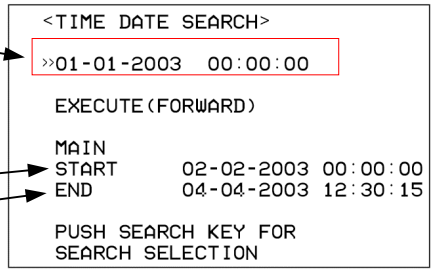
The [**>>**] arrows represent what line of the menu you are about to edit. At the moment this will be the Date / Time that you wish to find.

Below this there is:

[**START**] - this is the start point of all recorded time.

[**END**] - this is the end point of all recorded time.

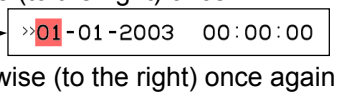
Note that you can only search between the START and END Date / Times shown.



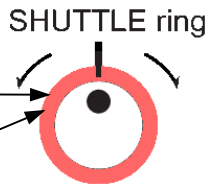
Step 3. To **SEARCH** you now need to enter a Date / Time.

Do this by turning the [***SHUTTLE RING***] clockwise (to the right) once.

~ Now the **DAY** will be highlighted.

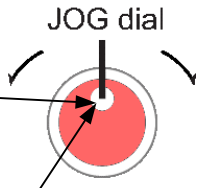


To edit the **DAY** turn the [***SHUTTLE RING***] clockwise (to the right) once again.



~ Now the **DAY** will be flashing.

To change the value of the **DAY** turn the [***JOG DIAL***] clockwise (to the right) to increase the day or anticlockwise (to the left) to decrease the day.

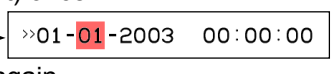


Once you have selected the correct **DAY** that you wish to search, turn the [***SHUTTLE RING***] clockwise once again, and the flashing will stop and the day will be highlighted once again.

~ You have now selected the **DAY** that you want to search in.

Step 4. Next you will need to select the **MONTH**. At present the **DAY** is highlighted.
To select the **MONTH** you need to turn the [***JOG DIAL***] clockwise (to the right) once.

~ Now the **MONTH** will now be highlighted.



To edit the **MONTH** turn the [***SHUTTLE RING***] clockwise (to the right) once again.

~ Now the **MONTH** will be flashing.

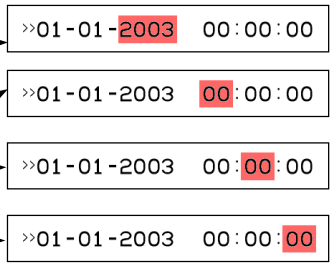
To change the value of the **MONTH** turn the [***JOG DIAL***] clockwise (to the right) to increase the month or anticlockwise (to the left) to decrease the month.

Once you have selected the correct **MONTH** that you wish to search in, turn the [***SHUTTLE RING***] clockwise once again, and the flashing will stop and will be highlighted once again.

SEARCH

~ You have now selected the **MONTH** that you want to search in.

Step 5. To select the **YEAR** follow the same procedure of Step 4.
Note where Step 4 says **MONTH** this will now be **YEAR**.



Step 6. To select the **TIME** follow the same procedure of Step 4.
Note where Step 4 says **MONTH** this will now be **HOUR** of the Day.

Or **MINUTE** of the Hour.

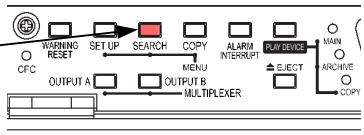
Or **SECOND** of the Minute.

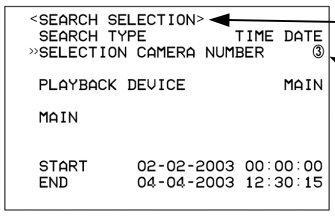
Step 7. Now turn the [***SHUTTLE RING***] anticlockwise (to the left) to go back to the **TIME DATE SEARCH** menu.

You will now notice [**>>**] next to the start of the **Date and Time** as per Step 2.

Step 8. The **Date and Time** that you wish to view has now been selected. If you need to select a specific **CAMERA** please follow this step, or else if you wish to view all camera's (default setting) go to Step 10 - Executing the Search.

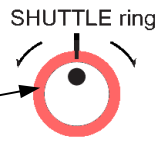
To select a **CAMERA** - press the [***SEARCH***] button.

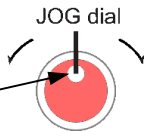




Now you will be viewing the **SEARCH SELECTION** menu.

You will notice [**>>**] next to the **SELECTION CAMERA NUMBER** - turn the [***SHUTTLE RING***] clockwise (to the right) once.





~ Now the **SELECTION CAMERA NUMBER** will be highlighted and flashing.

To change the **CAMERA NUMBER** turn the [***JOG DIAL***] clockwise (to the right) to increase the camera number or anticlockwise (to the left) to decrease the camera number.

Once you have selected the correct **CAMERA NUMBER** that you wish to search in, turn the [***SHUTTLE RING***] clockwise once again, and the flashing will stop.

~ You have now selected the **CAMERA NUMBER** that you want to search in.

Step 9. Now turn the [***SHUTTLE RING***] anticlockwise (to the left) to go back to the **TIME DATE SEARCH** menu.

You will now notice [**>>**] next to the start of the **Date and Time**.

Step 10. Turn the [***JOG DIAL***] clockwise (to the right) to move down a line. You should now have the [**>>**] next to the **EXECUTE (FORWARD)**.

Now turn the [***SHUTTLE RING***] clockwise (to the right) and this will execute the **SEARCH**.

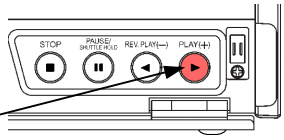
Note: If you need to change the SEARCH Date and Time again, then you can turn the [***JOG DIAL***] anticlockwise (to the left) to move up a line. You will now have the [**>>**] next to the **Date and Time** as per Step 2.

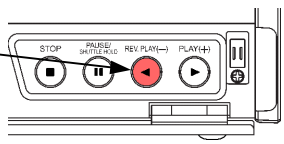
Step 10. The searched **Date and Time** will now appear on your display monitor, you can either **PLAY *Forward*** or ***Backwards*** from this point in time.

Note: You most be in the **PAUSE** mode first before either of the following.

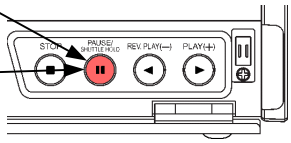
To **PLAY FORWARD** - press the [***PLAY(+)***] button.

To **PLAY BACKWARDS** - press the [***PAUSE***] then the [***REV. PLAY(-)***] button.

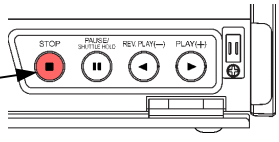




Step 11. To **PAUSE your viewing** - press the [***PAUSE***] button.



Step 12. Once you have finished playback you can return to the **TIME DATE SEARCH** menu by pressing the [***STOP***] button.



Step 13. To **EXIT** the **TIME DATE SEARCH** menu turn the [**SHUTTLE RING**] anticlockwise (to the left) or - press the [***SEARCH***] button twice, now you will be in the **LIVE RECORDING SCREEN**.

Copying

Note: While you are in the **COPYING** mode the DVR will continue to record.
The recorder will beep to let you know you've completed each task successfully.

Copying to Video Tape or DVD:

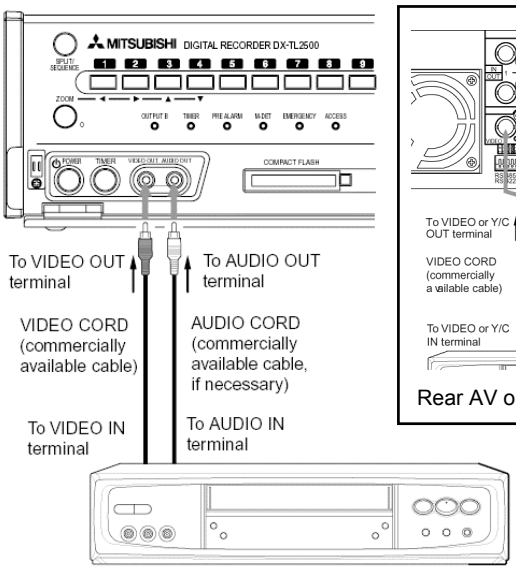
Step 1. [**VCR/DVD**] *For recording operations, see the instruction manual accompanying the VCR/DVD recorder*

If your VCR/DVD recorder is connected inline with your display monitor then go to **Step 2**.

**Otherwise connect the recorder as follows:

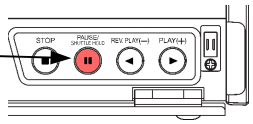
A. Connect RCA leads from the Front or Rear AV output (OUTPUT A only) on the DVR to the AV input on your VCR/DVD recorder. The connectors are colour coded, so make sure you match them correctly.

B. Select AV input on your recorder.


MITSUBISHI DIGITAL RECORDER DX-TL2500
To VIDEO OUT terminal
To AUDIO OUT terminal
VIDEO CORD (commercially available cable)
AUDIO CORD (commercially available cable, if necessary)
To VIDEO IN terminal
To AUDIO IN terminal
ANALOGUE VIDEO CASSETTE RECORDER
To VIDEO or Y/C OUT terminal
To AUDIO OUT terminal
VIDEO CORD (commercially available cable)
AUDIO CORD (commercially available cable, if necessary)
To VIDEO or Y/C IN terminal
To AUDIO IN terminal
Rear AV output (OUTPUT A only)

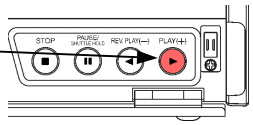
Step 2. [**DVR**] Follow the instructions of the **Basic Playback Guide** to playback a recorded time period.

The DVR should now be in [***PAUSE***] mode ready for playback.



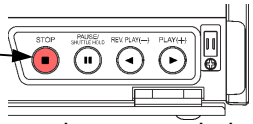
Step 3. [**VCR/DVD**] To start recording - press the [***RECORD***] button.

Step 4. [**DVR**] To start playback - press the [***PLAY(+)***] button.



Step 5. Once you have finished playing back the time period that you are copying.

- Press the [***STOP***] button on the [**DVR**].
- Press the [***STOP***] button on the [**VCR/DVD**].

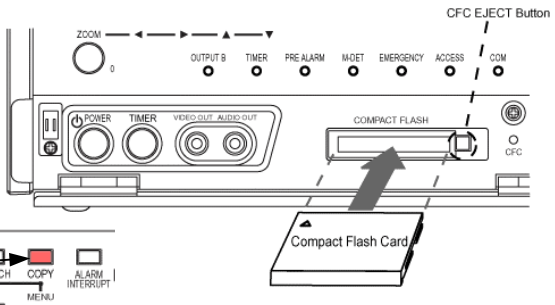


If you are copying several time periods then use [***PAUSE***] instead of [***STOP***] .

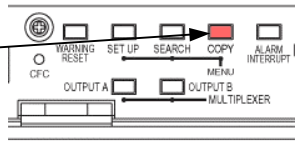
Note: Your display monitor will show you the recording from the DVR only. To verify you have recorded successfully to videotape or DVD, connect a monitor to your VCR/DVD recorder and playback the sequence. On some DVD recorders, you will need to finalize the DVD Disk so that it can be played back on other DVD players.

Copying to Compact Flash Card:

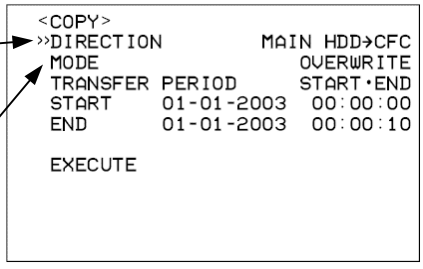
Step 1. Open the front panel of the DVR, and insert the Compact Flash Card into the [***COMPACT FLASH***] card slot.



Step 2. Press the [***COPY***] button near the middle of the front panel of the DVR.



The monitor will display a menu. Make sure the DVR is set to HDD to CFC. If not set correctly; use the [***JOG / SHUTTLE***] to select **HDD to CFC**.



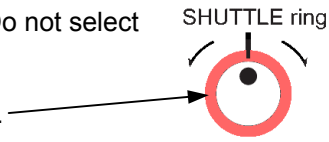
Step 3. Choose whether you want to overwrite the existing contents of the Compact Flash card or start recording from the last entry on the compact flash card. The default setting is **OVERWRITE**.

Step 4. Select the desired **TRANSFER PERIOD** using the [***JOG / SHUTTLE***].

START-END - selects the recording start and end time/date. The recorder will copy all data from the HDD between these times/dates.

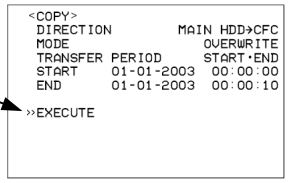
START - selects the recording start time/date only. The recorder will copy all data from the HDD from this start time/date.

LATEST DATA - refers to copying to an external device such as CD-Writer. Do not select for copying to compact flash card.



Step 5. Select the desired **START** or **START/END** time using the [***JOG / SHUTTLE***].

Step 6. Select **EXECUTE** using the [***JOG / SHUTTLE***], then turn the [**SHUTTLE RING**] clockwise to start copying.



If the copy operation does not start, turn the [***SHUTTLE RING***] anticlockwise or press the [***COPY***] button on the DVR.

If a compact flash card is not inserted, **COPY/NO MEDIA** will be displayed onscreen.

If the capacity of the compact flash card does not match the amount of data being copied, **COPY/SIZE/DATA ERROR** will be displayed onscreen. In this case, restart using a narrower copy range, or use a higher capacity card.

If data with no date is included in the copy range, **COPY/SIZE/DATA ERROR** will be displayed onscreen.

If you copy to compact flash card whilst still recording to HDD, some images may not be recorded to HDD at the start and end times of the copy range.

Step 7. [**Compact Flash Card continuous recording time (for 64MB)**]

Displays the estimated recordable time (when recording on a 64MB Compact Flash Card).

GRADE \ PPS	25P	12.5P	8.333P	6.25P	5P	4.167P	3.125P	2.5P	1P	0.5P	0.25P	0.125P	NUMBER OF RECORDING FIELD
SUPER	20s	40s	1m10s	1m30s	2m	2m20s	3m10s	4m	10m	20m	40m	1h20m	1,200
HIGH	30s	1m	1m30s	2m	2m40s	3m10s	4m10s	5m20s	13m	26m	53m	1h40m	1,600
STD	50s	1m40s	2m40s	3m30s	4m30s	5m20s	7m10s	9m	22m	45m	1h30m	3h	2,700
BASIC	1m10s	2m30s	3m40s	5m	6m10s	7m30s	10m	12m	31m	1h	2h	4h10m	3,700
LONG	2m40s	5m30s	8m10s	11m	13m	16m	22m	27m	1h	2h10m	4h30m	9h10m	8,300

• With Audio recording <Audio recording using 12.8KHz PCM sampling is possible.

GRADE \ PPS	25P	12.5P	8.333P	6.25P	5P	4.167P	3.125P	2.5P	1P	0.5P	0.25P	0.125P
SUPER	20s	40s	1m10s	1m30s	1m50s	2m10s	3m	3m50s	8m40s	15m	40m	1h20m
HIGH	30s	1m	1m30s	2m	2m30s	3m	4m	4m50s	11m	19m	53m	1h40m
STD	50s	1m40s	2m30s	3m20s	4m10s	5m	6m40s	8m	17m	27m	1h30m	3h
BASIC	1m10s	2m20s	3m30s	4m40s	5m50s	6m50s	8m50s	10m	22m	34m	2h	4h10m
LONG	2m20s	4m40s	7m	9m30s	11m	13m	17m	20m	35m	48m	4h30m	9h10m

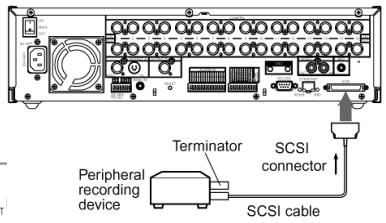
(!) ▭ : Since audio recording cannot be made during recording interval of 0.25P and 0.125P, even when the recording with audio recording is set to ON, the recordable time is the same for when setting audio recording to OFF.

(!) : Recalculate the values on the recording times chart according to the capacity of the CFC you are using. For example, for a 128MB CFC, multiply all the values by two.

(!) : For usable Compact Flash Card, check with your dealer of purchase.

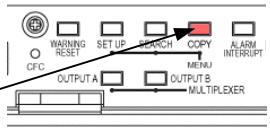
COPYING

Copying to CD-WRITER:



Step 1. Please make sure a CD-Writer is connected properly to the SCSI port on the rear of the DVR.

If not, please contact your installer.



Step 2. Press the [***COPY***] button on the front of the DVR.

A menu will appear on screen. Make sure the DVR **DIRECTION** is set to **HDD to COPY**.

If not; use the [***SHUTTLE RING***] ring to set correctly.

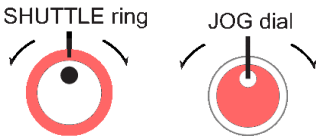
```
<COPY>
»DIRECTION          MAIN HDD→COPY
 MODE                      OVERWRITE
 TRANSFER PERIOD          START·END
 START     01-01-2003  00:00:00
 END       01-01-2003  00:00:10

 EXECUTE
```

Step 3. Choose the **MODE** - whether you want to overwrite or start recording from the last entry on the CD media. The default setting is **OVERWRITE**.

OVERWRITE: Overwrites current data on CD Media.

NO OVERWRITE: Writes following last entry on CD Media.



Step 4. Select the desired **TRANSFER PERIOD** using the [***JOG / SHUTTLE***]

START-END - selects the recording start and end time/date. The recorder will copy all data from the HDD between these times/dates.

START - selects the recording start time/date only. The recorder will copy all data from the HDD from this start time/date

LATEST DATA - starts copying from the end of the last recording on the CD-ROM, if sufficient memory is available.

```
<COPY>
 DIRECTION          MAIN HDD→COPY
 MODE                      OVERWRITE
»TRANSFER PERIOD          START·END
 START     01-01-2003  00:00:00
 END       01-01-2003  00:00:10

 EXECUTE
```

Step 5. Select the desired **START** or **START/END** time using the [***JOG / SHUTTLE***].

Step 6. Select **EXECUTE** using the [***JOG DIAL***] then turn the [***SHUTTLE RING***] clockwise to start copying.

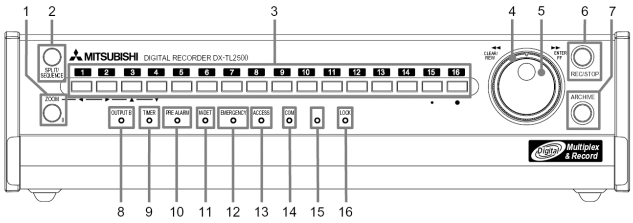
If the copy operation does not start, turn the [***SHUTTLE RING***] anticlockwise or press the COPY button on the DVR.

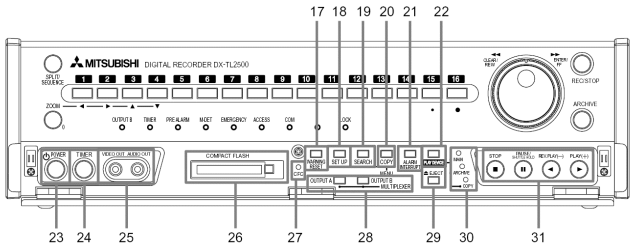
```
<COPY>
 DIRECTION          MAIN HDD→COPY
 MODE                      OVERWRITE
 TRANSFER PERIOD          START·END
 START     01-01-2003  00:00:00
 END       01-01-2003  00:00:10

»EXECUTE
```

Major Operations and Functions

Front View





1. ZOOM button
When pressing this button once during single screen display, the screen is magnified by 100%. In the same way, pressing the button twice magnifies the screen by 200% and pressing the button three times magnifies the screen by 400%. Pressing a camera number button (1, 2, 3, or 4) will move the magnification center point.

2. SPLIT/SEQUENCE button
Press the button to display SPLIT16, SPLIT9, SPLIT4 screen or SEQUENCE screen setting on multiplexer functions.

3. Camera number buttons (1 to 16)
Press the button to display the image from the camera connected to this input on to the monitor.

4. SHUTTLE ring
Used to set various menus and search functions, adjusting the playback speed, and rewinding or forwarding the recording images.

5. JOG dial
Used to set various menus and search functions, forwarding or rewinding the image during playback (field-by-field).

6. REC/STOP button
When pressing this button, recording starts and the button lights. When pressing the button for more than 1 second, the recording stops and the light turns off. When pressing this button for more than 1 second during alarm recording, recording stops. During timer
recording, recording will not stop even if the button is pressed.

7. ARCHIVE button
Press the button to archive. When pressing the button for more than 1 second, archive stops. The unit will not start to archive if an archive device is not connected to the unit.

8. OUTPUT B indicator
Illuminates when pressing the OUTPUT B button.

9. TIMER indicator
Illuminates during timer recording or timer recording stand-by.

10. PRE ALARM indicator
Illuminates during pre-alarm recording mode.

11. M-DET indicator
Illuminates when the motion detection function is on.

12. EMERGENCY indicator
Flashes during emergency recording and lights when recording is completed.

13. ACCESS indicator
Illuminates during access to hard disk drive, Compact Flash Card or peripheral recording devices.

14. COM (COMMUNICATION) indicator
Illuminates when establishing the communication with personal computer.

15. LOCK button
Pressing it with a pointed object (such as a ballpoint pen) while the MAIN switch (main power) on the rear of the unit is on, will activate the simple lock or password lock. Moreover, the PASSWORD can be set on the <PASSWORD SETTING> screen. The indicator will light while the lock is active.

16. LOCK indicator
Illuminates when simple lock or password lock is on.

17. WARNING RESET button
This button is used to clear on-screen warning display
and clear data.

18. SET UP button
Press this button to display the <SETTINGS> menu.

19. SEARCH button
Press this button to display the <SEARCH > menu.

20. COPY button
Press this button to display <COPY> menu. This button lights when performing copy operation. Copies cannot be made when the copy device is not connected or a card is not in the COMPACT FLASH slot.

21. ALARM INTERRUPT button
When pressing this button, the unit will not accept alarm signals or motion detection for 5 minutes. During this time, the button will flash. This allows device set-up changes to be made without being disturbed by ALARMS. Press this button once again to cancel.

22. PLAY DEVICE button
Press this button to select PLAYBACK device.

23. POWER button
When pressing this button while the MAIN switch on the rear of this unit is set to ON, the power turns on and the button lights. When the button is pressed again, the unit will be in stand-by and the light will turn off. When the unit is in operational transition such as booting, the button will flash and other operations are not accepted.

24. TIMER button
When pressing this button, the unit is set to timer recording/stand-by and the TIMER indicator lights. When pressing this button for more than 1 second, timer recording/stand-by is cancelled and the TIMER indicator turns off.

25. ANALOGUE OUT connectors

VIDEO OUT connector
Output connector for video signal (RCA pin).

AUDIO OUT connector
Output connector for audio signal (RCA pin).

26. COMPACT FLASH slot
Compact Flash Card can be used for saving/loading data and menus. When not using the slot, attach the COMPACT FLASH slot cover to prevent dust from entering within the unit. * Compact FlashTM is a trademark of SanDisk Corporation.

27. CFC (Compact Flash Card) indicator
Illuminates only when the CFC is selected by pressing the PLAY DEVICE button.

28. MULTIPLEXER buttons
OUTPUT A button
When this button is pressed operation of the camera number buttons and the SPLIT/SEQUENCE button switches image output to the OUTPUT A connector and ANALOGUE OUT connectors.

OUTPUT B button
When this button is pressed operation of the camera number buttons and the SPLIT/SEQUENCE button switches image output to the OUTPUT B connector. Please note that with this function, playback display of an already recorded image is not possible. A playback image can not be output to the OUTPUT B connector. To display image of the monitor connected to OUTPUT B, set to “ON” in the setting of the “OUTPUT B ON/OFF” of the <MPX DISPLAY SETTINGS> screen.

29. EJECT button
Use this button to remove media from externally connected devices.

30. PLAY DEVICE indicator
Lights the indicator corresponding to the device selected with the PLAY DEVICE button.

31. OPERATION buttons

STOP button
Press to stop playback.

PAUSE / SHUTTLE HOLD button
When pressing this button during playback, the unit switches to still frame playback and the button lights. When pressing this button again, the unit resumes playback and the button turns off. When pressing this button during shuttle playback, the set playback speed is maintained even when letting go of the SHUTTLE ring.

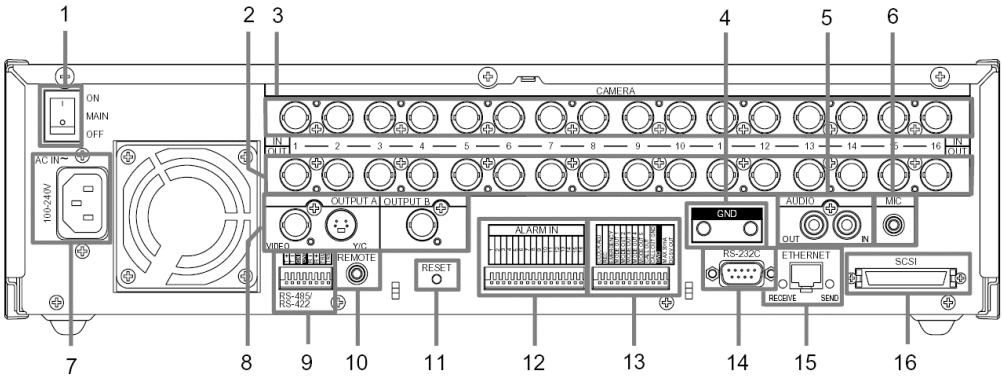
REV. PLAY (REVERSE PLAY) button
When pressing this button, the unit switches to reverse playback and the button lights.

PLAY button
When pressing this button, the unit starts playback and the button lights.

PLAY MODE buttons
The playback interval can be changed during normal and reverse playback by pressing PLAY(+) or REV. PLAY(-).

FUNCTIONS

Back View



1. MAIN switch
This is the main power switch. When using this unit, set this switch to ON. Otherwise, the power cannot be turned on/off using the POWER button on the front of the unit.

2. CAMERA OUT connectors
Camera video output connectors for use of BNC connectors. If the MAIN switch is ON, the loop through output is possible for the camera image inputted into each CAMERA IN connector.

3. CAMERA IN connectors
Input connector for signal of camera (BNC connector).

4. GND terminals
It is the common GND terminal.

5. AUDIO connectors

AUDIO IN connector
Input connector for audio signal (RCA pin).

AUDIO OUT connector
Output connector for audio signal (RCA pin).

6. MIC jack
Input connector for microphone (600 ohm impedance). Use of MIC for audio recording has priority to use of the AUDIO IN connector.

7. AC power socket
This socket connects to the power cord. Earth terminal is for safety. Use the 100 ~ 240V plug with earth for the power of this unit.

! This unit must be earthed at all times. Never connect this unit to a power outlet which does not have an earth terminal.

! Please use the AC power cord accessory.

8. VIDEO OUT connectors

OUTPUT A VIDEO connector
Output connector for video signal to monitor (BNC connector).

OUTPUT A S(Y/C) connector
This is output connector for video signals that separate brightness signals and color signals for higher picture quality. Simultaneous output along with OUTPUT A VIDEO is also possible.

OUTPUT B connector
Output connector for video signal to monitor only for live image (BNC connector).

9. RS-485/RS-422 connectors
Connectors for operations of pan, tilt and zoom when these connectors are connected to dome camera.

10. REMOTE jack
Input connector for wired remote control.

11. RESET button
Pressing this button resets the unit and the power turns off. In this case, video data, menu settings and the current time are kept.

12. ALARM IN terminals
Input terminal for alarm signal.

13. I/O terminals

CLOCK ADJ terminal
Input terminal to set the present time. Time display is adjusted to the nearest hour (00 minutes 00 seconds) when this terminal receives the CLOCK ADJ signal.

INFORMATION
The on-screen clock can be reset to the nearest hour, by applying a signal to the CLOCK ADJ terminal. For example, if the current time is 11:29:59, it will be reset to 11:00:00, and if the current time is 11:30:00, it will be reset to 12:00:00.

REC terminal
Input terminal to start recording. Not available during timer recording.

EMERGENCY terminal
Input terminal initiating immediate shift to EMERGENCY recording mode compulsorily.

MODE OUT 1 ~ MODE OUT 5 terminals
Output terminal to indicate the unit's current mode. Select the unit's condition by MODE OUT 1 ~ MODE
OUT 5 setting in the <REAR TERMINAL SETTINGS> menu.

CALL OUT terminal / CALL OUT GND terminals
This is the ISOLATION output terminal. Information that can be transmitted externally consists of CALL OUT settings made on the <REAR TERMINAL SETTINGS> menu screen as well as fixed output settings.

DC 5V OUT terminal
Will only output when both the MAIN switch and POWER button are ON. The maximum electric current is 30mA.

14. RS-232C connector
This connector is used to connect to host device with RS-232C connector. This unit can be controlled by another device through this connector.

15. ETHERNET connector
Use a 10BASE-T cable to connect to the Ethernet terminal. Please use the cable adapted to 10BASE-T. DUPLEX MODE is HALF DUPLEX.

RECEIVE indicator
Illuminates when the unit is receiving a signal.

SEND indicator
Illuminates when the unit is transmitting a signal.

16. SCSI connector
This connector is used to connect to peripheral recording device.

Inserting/Ejecting Compact Flash Card

Before using the Card, read the cautionary notes described in the manual included with Compact Flash Card.

<Inserting Card>
1. Remove the COMPACT FLASH slot cover attached to the unit.

2. Please turn down the side which contains notch in right and left, securely insert the Card until the CFC EJECT button pops out.

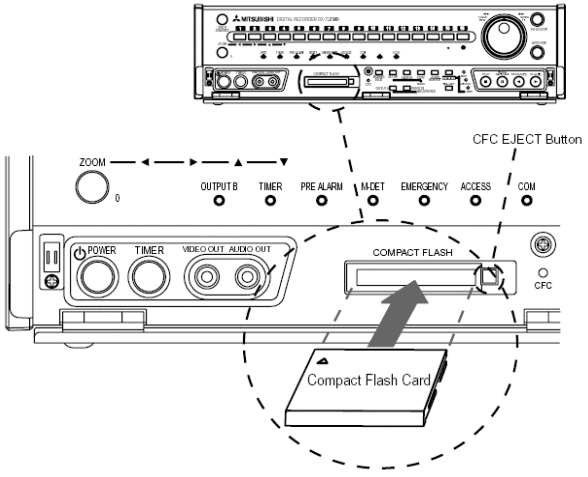
a) Do not eject the Card when copying/restoring, copying/ loading menus, or immediately after inserting the Card. The Card or the contained data may become damaged.

b) Securely insert the Compact Flash Card. Otherwise, the unit may not work properly.

c) Please use the Compact Flash Card which we recommend. When a non recommended Card is used, there is a possibility that reading and writing of data may not operate correctly.

d) For usable Compact Flash Card check with your dealer of purchase.

e) When using a new Card, be sure to execute CFC DATA CLEAR in the <INFORMATION/SERVICE> screen.

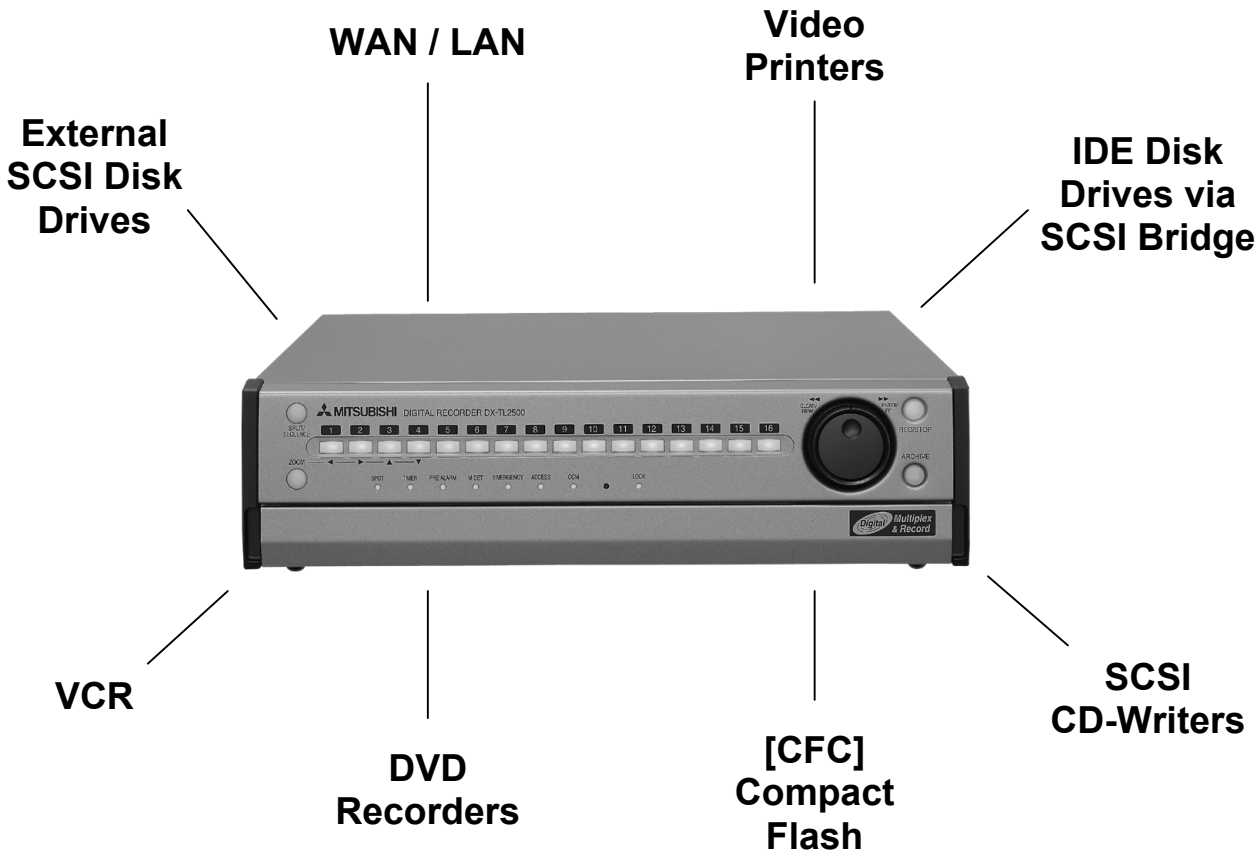


<Ejecting Card>
1. Press the CFC EJECT button and eject the Card.
2. Attach the COMPACT FLASH slot cover.

FUNCTIONS

Options

Listed below are some of the devices that can be connected to your Mitsubishi Electric Digital Recorder…



For more information on what devices you can use, and where to buy these devices please contact your Security Specialist or BDT.

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